The MAILING DATE of this communication appea	10/082,001 Examiner	DEMUTH ET AL.  Art Unit	
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The MAILING DATE of this communication appea	Chih-Min Kam	1	
The MAILING DATE of this communication appea	hih-Min Kam	1653	
nerewith (or previously mailed), a Notice of Allowance (PTOL-85) on NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and the Office of Upon petition by the applicant.	r other appropriate commu	th the correspondence address- this application. If not included	
. A This communication is responsive to 10/15/04.			
⊠ The allowed claim(s) is/are <u>1-10 and 14-22</u> .			
. $igotimes$ The drawings filed on <u>22 February 2002</u> are accepted by the	Examiner.		
<ul> <li>.          \int Acknowledgment is made of a claim for foreign priority under a)          \int All b)          \int Some* c)          \int None of the:         <ul> <li>1.          \int Certified copies of the priority documents have be</li> </ul> </li> </ul>	er 35 U.S.C. § 119(a)-(d) o		
2. Certified copies of the priority documents have b	een received in Applicatior	ı No	
3. Copies of the certified copies of the priority docu	ments have been received	in this national stage application for	rom the
international Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to file a NT of this application.	a reply complying with the requirer	nents
A SUBSTITUTE OATH OR DECLARATION must be submitte INFORMAL PATENT APPLICATION (PTO-152) which gives recommendations are submitted.	eason(s) why the oath or (	MINER'S AMENDMENT or NOTIC declaration is deficient.	E OF
CORRECTED DRAWINGS (as "replacement sheets") must b	e submitted.		
<ul><li>(a) ☐ including changes required by the Notice of Draftsperson</li></ul>	s Patent Drawing Review	(PTO-948) attached	
i) in hereto of 2) in to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Al Paper No./Mail Date	mendment / Comment or in	n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.84( each sheet. Replacement sheet(s) should be labeled as such in the f	c)) should be written on the	drawings in the front (not the back)	of
DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR	of PIOLOGICAL BARTER	1.121(d).	
achment(s) Notice of References Cited (DTO, 202)			
☐ Notice of References Cited (PTO-892) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Infor	mal Patent Application (PTO-152)	
	6. Interview Sum	mary (PTO-413),	
☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/26/03	7. 🛛 Examiner's An	ail Date <u>20041025</u> . nendment/Comment	
Examiner's Comment Regarding Requirement for Deposit			
of Biological Material	<ol> <li>b.</li></ol>	atement of Reasons for Allowance	
	<del></del>		

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An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Serio on October 26, 2004.

## Examiner's Amendments to the Claims:

Please cancel claims 11-13 and 23-25.

Claims 1, 4 and 14 have been amended as follows:

1. (Currently amended) A <u>dipeptidyl peptidase IV (DP-IV)</u> inhibitor compound of the general formula



wherein

A is an amino acid having at least one functional group in the side chain,

B is a chemical compound covalently bound to at least one functional group of the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids, except for homopolymers of glycine consisting of up to 6 glycine monomers, and
- (b) polyethylene glycols having molar masses of up to 20 000 g/mol; and C is a group amide-bonded to A, chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine.
- 4. (Currently amended) The compound according to claim 1, wherein the amino acid of A is chosen from the group consisting of threonine, tyrosine, serine, arginine, lysine, aspartic acid, glutamic acid and cysteine.

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14. (Currently amended) A pharmaceutical composition comprising at least one dipeptidyl peptidase IV (DP-IV) inhibitor compound of the general formula



wherein

A is an amino acid having at least one functional group in the side chain,

B is a chemical compound covalently bound to at least one functional group in the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids, except for homopolymers of glycine consisting of up to 6 glycine monomers, and
- (b) polyethylene glycols having molar masses of up to 20,000 g/mol,
- [(c) optionally substituted organic amines, amides, alcohols, acids or aromatic compounds having from 8 to 50 carbon atoms,]

C is a group, amide-bonded to A, chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine, [pyrrolidide provided that, when B is selected from (c), then C can not be pyrrolidine or cyanopyrrolidine;]

and at least one pharmaceutically acceptable carrier [material].

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Min Kam, Ph. D. CHK Patent Examiner

CMK October 26, 2004

> JON WEBER SUPERVISORY PATENT EXAMINER